

RC-AVB

Video Conference AV Bridge



PRODUCT OVERVIEW

This professional-grade audio-video processor is a **6x1+1 seamless scaler switcher** designed to deliver smooth and reliable performance for live production, conferencing, and multimedia environments. It features four HD/3G-SDI inputs and two HDMI inputs, with dual HDMI outputs and an additional USB output. Supporting a maximum output resolution of 1080P@60Hz, the device ensures jitter-free, blank-free transitions between sources, offering seamless switching and an adjustable image freeze function for up to six seconds—ideal for professional AV workflows where precision and stability are critical.

The processor also doubles as a **USB video bridge**, making it an excellent solution for integrating high-definition HDMI and audio sources into **conferencing platforms** such as Zoom, Microsoft Teams, and Skype for Business. With RS232 and Ethernet ports, it can easily interface with central control systems or work in conjunction with CLEACON and CLASSIC-D series conference units to enable intelligent camera auto-tracking. This versatile switcher is perfect for boardrooms, classrooms, control centers, and live event spaces requiring reliable signal management and conferencing integration.

KEY FEATURES

- 6x1+1 seamless scaler switcher with support for resolutions up to 1080P@60Hz
- 4 HD/3G-SDI inputs and 2 HDMI inputs for versatile source connectivity
- 1+1 HDMI outputs and 1 USB output for flexible display and streaming options
- Seamless switching with no jitter and no blank screen
- Adjustable image freeze function (1 to 6 seconds; minimum 0.5s required to enable)
- USB video bridge functionality for integration with conferencing platforms like Zoom, Microsoft Teams, and Skype for Business
- RS232 and Ethernet ports for integration with central control systems
- Compatible with CLEACON and CLASSIC-D series for camera auto-tracking functionality
- Option to turn on/off channel number indicators for cleaner presentation
- Ideal for professional AV environments such as boardrooms, classrooms, control rooms, and live events

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

TECHNICAL SPECIFICATIONS

Video Input

Parameter	HDMI Input	SDI Input
Signal Format / Quantity	HDMI x2	SDI x4
Connector	HDMI-A connectors	BNC female connectors
Pixel Bandwidth	165 MHz	165 MHz
Protocol / Format	HDMI 1.3a, HDCP 1.3, DVI 1.0	270Mbps SDI, 1.485Gbps HD-SDI, 2.97Gbps 3G-SDI
Supported Resolutions	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz
Transmission Distance	≤35m	3G-SDI ≤100m with certified SDI cable

Video Output

Parameter	HDMI output	USB Output
Signal Format / Quantity	HDMI x2	SDI x4
Connector	HDMI-A connectors	USB 2.0 Type-A female
Pixel Bandwidth	165 MHz	-
Supported Resolutions	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz; 1920×1080i@50/60Hz	-
Transmission Distance	HDMI ≤7m with certified HDMI cable	-

Control & Mechanical

Control Method	RS 232, Ethernet, Front Panel
Dimensions (mm)	483L x 260W x 43.6D
Nominal Analog Input and output Level	+4 dBu with 20 dB headroom
Weight	3 Kg

